**Supplementary Table S2.** Forward and reverse primer sequences of *Solanum*-based markers that amplified targets in silverleaf nightshade and that were used for genotyping.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Primer name | Source Species | Forward primer | Reverse primer |
| 1 | TGS 11481 | *Solanum lycopersicum* | cgaccgaattcgtttgtttt | gcaacgacttaaattttgggg |
| 2 | TGS 0265 | *Solanum lycopersicum* | gaaccatcacaattttcctcg | cacacacacacaaacacacaca |
| 3 | TGS 1565 | *Solanum lycopersicum* | gcttcgctttcgatgaccaat | ttgcagtgtgtgatgtgtgtg |
| 4 | TGS 12143 | *Solanum lycopersicum* | gtatggagcctagaggaggca | tgttccattttcatgcacact |
| 5 | TGS 12372 | *Solanum lycopersicum* | gatgaagatgtgggcgagac | atgttgatgcctggtgtttt |
| 6 | TGS 10482 | *Solanum lycopersicum* | actgagaaggtggtgggatg | gcggtaccacttggtctgtt |
| 7 | TGS 9583 | *Solanum lycopersicum* | gtggagaagagaggaccacaga | ccagtttcctcattgatgacttc |
| 8 | TGS 2428 | *Solanum lycopersicum* | gtggttagcaccacaccaaaa | cgtcagcaatgaaggtctga |
| 9 | TES 5394 | *Solanum lycopersicum* | gcatttccgcaccaaaaagtt | aaacctcgttcattgcaacc |
| 10 | TGS 12581 | *Solanum lycopersicum* | gacttatcaccggctttccct | tggaggttttgcagctctct |
| 11 | TGS 10252 | *Solanum lycopersicum* | gtttcggagaattttgaatgga | ccggattaatttttgtgacca |
| 12 | TGS 1020 | *Solanum lycopersicum* | gctttcggaagttggatcgag | aacctattggtgttcgtggc |
| 13 | TGS 6246 | *Solanum lycopersicum* | gatgtcataacaggtgcgtcg | agcggattcatgagtttgga |
| 14 | TGS 0430 | *Solanum lycopersicum* | gagaagaaaagggcgatggat | caagcaattatgagaaactcca |
| 15 | TGS 0583 | *Solanum lycopersicum* | gtgtttggaatttaggagcca | cacgatctggcgtttaggat |
| 16 | TGS 1418 | *Solanum lycopersicum* | gccttgcttaagattccccaa | atccttggagtttgtcgtgg |
| 17 | TGS 3806 | *Solanum lycopersicum* | gatgaggctccatggatgaaa | ccaaaagaattgggttcctc |
| 18 | TGS 1264 | *Solanum lycopersicum* | tcagccatttctagcttcgg | gaggagaagggggttgattc |
| 19 | TESa 7324 | *Solanum lycopersicum* | gcatggcggagttagcatttt | accagctctttagcccacaa |
| 20 | TES 4051 | *Solanum lycopersicum* | ggattatgtcaaggggcaga | atcgtctccacccacagttc |
| 21 | TESb 0187 | *Solanum lycopersicum* | gagaaaacagaggtttctgcaa | agaaaaccccaacaagggaat |
| 22 | TES 4332 | *Solanum lycopersicum* | gcccttgacatctgttcacca | aagcagtgagattgggagaaa |
| 23 | TES 5116 | *Solanum lycopersicum* | attcccttgaaaacatcccc | ggtggaactcttgttgccat |
| 24 | TGS 1432 | *Solanum lycopersicum* | gacatgcattggttgtgatgc | atgcttgtcctgacctcctg |
| 25 | TES 1301 | *Solanum lycopersicum* | gcaccaccagcagatccatta | cggattctggtgattttgga |
| 26 | TES 2519 | *Solanum lycopersicum* | ggctggaggagcctctactt | tgtttgatatgagagtgtggagtg |
| 27 | TES 5971 | *Solanum lycopersicum* | gattgccctctcttcacaagc | agaaagaaggcctactccgc |
| 28 | TES 0236 | *Solanum lycopersicum* | gggaattgttggtggaaaga | tccgaaggaagaaaggacaa |
| 29 | SLYD 02 | *Solanum lycopersicoides* | ctcgttagtgcacccatttc | tgtttcccatagaacctcgg |
| 30 | SLYD 03 | *Solanum lycopersicoides* | tcacacatgagaggtaaccc | tgaatgtccagttctgccac |
| 31 | SLYD 05 | *Solanum lycopersicoides* | aacaacaaccctggctttgc | gagcagatggacagaacatc |
| 32 | SLYD 10 | *Solanum lycopersicoides* | tagggctctgttagaatgcg | tggaattgactgctggtgag |
| 33 | SLYD 12 | *Solanum lycopersicoides* | ggggttcttgtttccatctc | cagtcgtcagacaactgtag |
| 34 | SLYD 13 | *Solanum lycopersicoides* | ttcagagacaccagcatcag | tactgtttcggtttggggac |
| 35 | SLYD 15 | *Solanum lycopersicoides* | cagactttgcctaggaagag | ggcttcaacggaagatcaag |
| 36 | SLYD 21 | *Solanum lycopersicoides* | tccattgtggtggctacaac | tcactaatccaccagtcagc |
| 37 | SLYD 25 | *Solanum lycopersicoides* | cctggtttgtgtcaattggc | ttacccttggcctaacgatc |
| 38 | SLYD 27 | *Solanum lycopersicoides* | ccttcaagagaagcaaggag | ccttggtaaattctgggagg |
| 39 | SLYD 29 | *Solanum lycopersicoides* | agacatccctgcaagcaatg | aaggcgaaatacccacttcc |
| 40 | SLYD 30 | *Solanum lycopersicoides* | gatgactgggtatctttcgc | ccatctgttggttgaggaag |
| 41 | SLYD 42 | *Solanum lycopersicoides* | cattgtcggacatggaatgg | gagcaagagtgcttgtgtac |
| 42 | SLYD 43 | *Solanum lycopersicoides* | ggagggatatggcctttatg | caacacccgataggtaagtc |
| 43 | SLYD 50 | *Solanum lycopersicoides* | tttcagtgccacaattgggc | aacaccacttgaagcttccc |
| 44 | SLYD 52 | *Solanum lycopersicoides* | atgcttactctccctgagtg | cacgttcatcaagctctctc |
| 45 | SLYD 53 | *Solanum lycopersicoides* | ttaagtggatgtgccggaag | gctagagtacttagaggagc |
| 46 | SLYD 54 | *Solanum lycopersicoides* | caaaaaagcaccaccggatc | ttcaacagagctaacgcctc |
| 47 | SEAc 1 | *Solanum elaeagnifolium* | actaataccttaccccgttcatct | attcgttcaagaagggctcc |
| 48 | SEA 2 | *Solanum elaeagnifolium* | atagtacactcagcatccatcataag | acaggaggaacagcaaggc |
| 48 | SEA 3 | *Solanum elaeagnifolium* | tcacaccactaaaggggggat | atcaacaggaggaacagcaagg |
| 50 | SEA 4 | *Solanum elaeagnifolium* | atgtagggactagtgctcgagtt | aataaagcaagggcaataggtc |
| 51 | SEA 5 | *Solanum elaeagnifolium* | tatggggcacatgggagag | aacccccattctaaatccttgt |
| 52 | SEA 6 | *Solanum elaeagnifolium* | ctttgttcggagttgttgacc | cctccatcgcaaaaccatc |
| 53 | SEA 7 | *Solanum elaeagnifolium* | agagtggagaggagaagtagaagg | ggtaaattgaggatcttgggtg |
| 54 | SEA 8 | *Solanum elaeagnifolium* | ggaattaagggtccaaggc | ctcacaagttactcgggctct |
| 55 | SEA 9 | *Solanum elaeagnifolium* | ttcataaatgagaacttacacggac | tcttagcagcgaactgggac |
| 56 | SEA 10 | *Solanum elaeagnifolium* | ccaagcgaggaaatagcact | gtgcttccgatttctccaac |
| 57 | SEA 11 | *Solanum elaeagnifolium* | ggtgtttgttggagaaatcgg | tcttctacgatttccttggtgc |
| 58 | SEA 12 | *Solanum elaeagnifolium* | gaaatgaaagtcccatctcc | tgacttcagaaccagttactcct |
| 59 | SEA 14 | *Solanum elaeagnifolium* | gcgaacgaataattgaccacc | agtcgccaaactccacatctc |
| 60 | SEA 15 | *Solanum elaeagnifolium* | tcatcacgcaaacgcttactc | atttaactatgtgctaattgttatcgc |
| 61 | SEA 16 | *Solanum elaeagnifolium* | caaagatacggaccgcacct | ggtaaacgccagacgaacaag |
| 52 | SEA 17 | *Solanum elaeagnifolium* | ccaaggctcggaagaacc | ccacgaaaacacaacctaactaac |
| 63 | SEA 18 | *Solanum elaeagnifolium* | ggctaagtgactaaacaaaaatgg | agcagtggtatcaatttgtgtcg |
| 64 | SEA 19 | *Solanum elaeagnifolium* | tggtagaggcgaaggcat | gcatcttcaggtcccaactt |
| 65 | SEA 20 | *Solanum elaeagnifolium* | cacttgcccctattcctgtcat | cttgtatccttctcgctacctttc |
| 66 | SEA 21 | *Solanum elaeagnifolium* | gctgctactcccaatcctaactg | aaatctccgacgaaagctactact |
| 67 | SEA 22 | *Solanum elaeagnifolium* | gcagaatcccgtgaaccatc | cgccgagagagttgggttac |
| 68 | SEA 23 | *Solanum elaeagnifolium* | attggttgggctgtgttcct | tgggcggatttagcaactg |
| 69 | SEA 24 | *Solanum elaeagnifolium* | tttagcctattccacaatgtctca | tggcgaatacaaccaactatcat |
| 70 | SEA 25 | *Solanum elaeagnifolium* | tcactatctctatggggtaaaaacg | gcatagtattgtccgattcataagg |
| 71 | STUd 1 | *Solanum tuberosum* | cagcaaaatcagaacccgat | ggatcatcaaattcaccgct |
| 72 | STU 2 | *Solanum tuberosum* | cgatctctgctttgcaggta | gttcatcactaccgccgact |
| 73 | SMEe 1 | *Solanum melongena* | atcctgttgctgctcattttcctc | aggaggatccaagaggtttgttga |
| 74 | SME 2 | *Solanum melongena* | ccaaaacaatttccagtgactgtgc | gaccagaatgcccctcaaattaaa |
| 75 | SME 4 | *Solanum melongena* | tctgcatcgaatgtctacaccaaa | aaaagcgcttgcactacactgaat |
| 76 | SME 5 | *Solanum melongena* | gatcatcactggtttgggctacaa | aggggagaggaaacttgattggac |
| 77 | SME 6 | *Solanum melongena* | cagacacaactgctgagccaaaat | cggtttaatcatagcggtgacctt |
| 78 | SME 7 | *Solanum melongena* | caaaagataaaaagctgccggatg | catgcgtgagttttggagagagag |

agenomic-based tomato SSRs

bexpressed sequence tag (EST)-based tomato SSRs

cEST-based, silverleaf nightshade-specific markers designed by Zhu et al. (2013)

dpotato SSRs screened for transferability to silverleaf nightshade by Zhu et al. (2012)

eeggplant SSRs screened for transferability to silverleaf nightshade by Zhu et al. (2012)